

Claims

1. (Amended) In a method of coating a steel product using a molten aluminum-zinc alloy bath **containing aluminum in an amount between about 25% and 70% by weight**, the improvement comprising modifying the composition of the aluminum-zinc alloy by adding an effective amount of one or more of a particulate compound constituent that produces a coated spangle size on a substrate of between about 400 to 500 microns, said grain refining particulate compound selected from the group consisting of boride compounds in an amount between about 0.0008 to 0.0012% by weight, and having one of titanium and aluminum.

6. (Amended) In a coated steel article comprising a steel substrate; and an aluminum-zinc coating **containing aluminum in an amount between about 25% and 70% by weight applied thereto thereon**, the improvement comprising the aluminum-zinc coating being modified with an effective amount of one or more of a particulate compound constituent selected from the group consisting of boride compounds having one of titanium and aluminum, so that said aluminum-zinc coating has a spangle size of between about 400 to 500 microns.

10. (Amended) In an aluminum-zinc steel product coating composition capable of producing a coated steel substrate with a coating spangle size between about 400 to 500 microns, the improvement comprising an aluminum-zinc alloy **coating composition** including about **25% up to about 70% Al and** an effective amount of one or more of a particulate compound constituent selected from the group consisting of boride compounds in an amount between about 0.0008 - 0.0012% by weight, and having one of titanium and aluminum.